

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("6560047").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/08 12:15
L2	5	("5321678" "6483101").PN. OR ("6560047").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/08 12:16
S1	19	((CHRIS) near2 (EATON)).INV.	US-PGPUB; USPAT	OR	OFF	2007/04/30 17:20
S2	2	((CHRIS) near2 (EATON)).INV.	EPO; JPO; DERWENT	OR	OFF	2007/06/08 10:27
S3	5	((MATT) near2 (MURRAY)).INV.	US-PGPUB; USPAT	OR	OFF	2007/04/30 17:21
S4	0	((MATT) near2 (MURRAY)).INV.	EPO; JPO; DERWENT	OR	OFF	2007/04/30 17:21

EAST Search History

S5	541 <i>Camera Phone related (class 348)</i>	(US-20040207823-\$ or US-20040082367-\$ or US-20070076118-\$ or US-20070066300-\$ or US-20050243198-\$ or US-20040125227-\$ or US-20040105025-\$ or US-20040246373-\$ or US-20070064138-\$ or US-20060066748-\$ or US-20070013774-\$ or US-20060164533-\$ or US-20050245288-\$ or US-20040135686-\$ or US-20070065039-\$ or US-20040077313-\$ or US-20040048632-\$ or US-20040130639-\$ or US-20070041630-\$ or US-20060125930-\$ or US-20060125925-\$ or US-20070036128-\$ or US-20040110474-\$ or US-20060017840-\$ or US-20060132615-\$ or US-20060028565-\$).did. or (US-20060089171-\$ or US-20040085745-\$ or US-20060125950-\$ or US-20040169722-\$ or US-20060164550-\$ or US-20060166712-\$ or US-20040174430-\$ or US-20040225425-\$ or US-20050281548-\$ or US-20050280730-\$ or US-20050280724-\$ or US-20040227847-\$ or US-20050186996-\$ or US-20050184352-\$ or US-20050175257-\$ or US-20050174454-\$ or US-20050173616-\$ or US-20040061034-\$ or US-20060135137-\$ or US-20040075620-\$ or US-20050168566-\$ or US-20050164752-\$ or US-20050164734-\$ or US-20050268240-\$ or US-20060052135-\$ or US-20060028567-\$ or US-20070008495-\$).did. or (US-20050266887-\$ or US-20050157203-\$ or US-20050151877-\$ or US-20050151849-\$ or US-20050148220-\$ or	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/04/30 17:37
6/8/2007 12:40:46 PM	C:\My Documents\EAST\Workspaces\10733593	Camera lens and speaker.wsp				Page 2

EAST Search History

S6	371 <i>Camera Phone Related</i>	(US-20050052568-\$ or US-20040227848-\$ or US-20010029167-\$ or US-20070010289-\$ or US-20070053682-\$ or US-20070036533-\$ or US-20070036532-\$ or US-20070035859-\$ or US-20070035858-\$ or US-20070035851-\$ or US-20070035206-\$ or US-20060017834-\$ or US-20050285970-\$ or US-20050275314-\$ or US-20050259155-\$ or US-20050237625-\$ or US-20050231817-\$ or US-20050225877-\$ or US-20070036534-\$ or US-20070077049-\$ or US-20070058070-\$ or US-20070047942-\$ or US-20070040924-\$ or US-20070035210-\$ or US-20070030573-\$ or US-20070019950-\$).did. or (US-20070008321-\$ or US-20070002455-\$ or US-20060274186-\$ or US-20060238075-\$ or US-20060238074-\$ or US-20060232169-\$ or US-20060222355-\$ or US-20060221472-\$ or US-20060221458-\$ or US-20060215281-\$ or US-20060209205-\$ or US-20060181748-\$ or US-20060181632-\$ or US-20060177210-\$ or US-20060172762-\$ or US-20060152818-\$ or US-20060152814-\$ or US-20060127077-\$ or US-20060125950-\$ or US-20060125925-\$ or US-20060119218-\$ or US-20060103893-\$ or US-20060103374-\$ or US-20060062559-\$ or US-20060056036-\$ or US-20060056035-\$ or US-20060049720-\$).did. or (US-20060045374-\$ or US-20060044455-\$ or US-20060041591-\$ or US-20060008129-\$ or US-20050275215-\$ or	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/30 17:36
----	--	---	---	----	-----	------------------

EAST Search History

S7	97	(US-20030125080-\$ or US-20030109232-\$ or US-20070010289-\$ or US-20050001905-\$ or US-20040240845-\$ or US-20050277437-\$ or US-20050275623-\$ or US-20060240700-\$ or US-20060238637-\$ or US-20060209505-\$ or US-20060142053-\$ or US-20060108588-\$ or US-20060097988-\$ or US-20060170651-\$ or US-20040212956-\$ or US-20040209645-\$ or US-20040204065-\$ or US-20060203439-\$ or US-20060199729-\$ or US-20050041136-\$ or US-20050037821-\$ or US-20050035912-\$ or US-20050026656-\$ or US-20050024500-\$ or US-20050233766-\$ or US-20050205291-\$).did. or (US-20050195576-\$ or US-20050275751-\$ or US-20050253923-\$ or US-20050239520-\$ or US-20050235021-\$ or US-20070004477-\$ or US-20070004250-\$ or US-20050177978-\$ or US-20050128322-\$ or US-20050094025-\$ or US-20050014538-\$ or US-20040203535-\$ or US-20030227564-\$ or US-20030064685-\$ or US-20060217148-\$ or US-20060046776-\$ or US-20060044442-\$ or US-20060040712-\$ or US-20050050686-\$ or US-20050041862-\$ or US-20060044407-\$ or US-20040051626-\$ or US-20040048632-\$ or US-20020180867-\$ or US-20020142798-\$ or US-20020089589-\$ or US-20020067408-\$).did. or (US-20020061767-\$ or US-20050101358-\$ or US-20050085280-\$ or US-20050064264-\$ or US-20050057559-\$ or	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/30 17:36
6/8/2007 12:40:46 PM		Camera Phone Rejected				
C:\My Documents\EAST\Workspaces\10733593 Camera lens and speaker.wsp						

EAST Search History

S8	15	(S5 S6 S7) and ((speaker loudspeaker phone microphone) same (diaphragm cone (voice adj coil)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/02 15:44
S9	1	((("6639629") or ("2001002849")). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/30 17:52
S10	0	masayuki-arai.in.	US-PGPUB	OR	OFF	2007/04/30 17:57
S11	5237	masayuki.in.	US-PGPUB	OR	OFF	2007/04/30 17:53
S12	354	S11 and @py="2001"	US-PGPUB	OR	OFF	2007/04/30 17:53
S13	12	arai-masayuki.in.	US-PGPUB	OR	OFF	2007/04/30 17:57

EAST Search History

S14	541	(US-20040207823-\$ or US-20040082367-\$ or US-20070076118-\$ or US-20070066300-\$ or US-20050243198-\$ or US-20040125227-\$ or US-20040105025-\$ or US-20040246373-\$ or US-20070064138-\$ or US-20060066748-\$ or US-20070013774-\$ or US-20060164533-\$ or US-20050245288-\$ or US-20040135686-\$ or US-20070065039-\$ or US-20040077313-\$ or US-20040048632-\$ or US-20040130639-\$ or US-20070041630-\$ or US-20060125930-\$ or US-20060125925-\$ or US-20070036128-\$ or US-20040110474-\$ or US-20060017840-\$ or US-20060132615-\$ or US-20060028565-\$).did. or (US-20060089171-\$ or US-20040085745-\$ or US-20060125950-\$ or US-20040169722-\$ or US-20060164550-\$ or US-20060166712-\$ or US-20040174430-\$ or US-20040225425-\$ or US-20050281548-\$ or US-20050280730-\$ or US-20050280724-\$ or US-20040227847-\$ or US-20050186996-\$ or US-20050184352-\$ or US-20050175257-\$ or US-20050174454-\$ or US-20050173616-\$ or US-20040061034-\$ or US-20060135137-\$ or US-20040075620-\$ or US-20050168566-\$ or US-20050164752-\$ or US-20050164734-\$ or US-20050268240-\$ or US-20060052135-\$ or US-20060028567-\$ or US-20070008495-\$).did. or (US-20050266887-\$ or US-20050157203-\$ or US-20050151877-\$ or US-20050151849-\$ or US-20050148220-\$ or	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/01 07:22
-----	-----	---	---------------------------------	----	-----	------------------

EAST Search History

S15	371	(US-20050052568-\$ or US-20040227848-\$ or US-20010029167-\$ or US-20070010289-\$ or US-20070053682-\$ or US-20070036533-\$ or US-20070036532-\$ or US-20070035859-\$ or US-20070035858-\$ or US-20070035851-\$ or US-20070035206-\$ or US-20060017834-\$ or US-20050285970-\$ or US-20050275314-\$ or US-20050259155-\$ or US-20050237625-\$ or US-20050231817-\$ or US-20050225877-\$ or US-20070036534-\$ or US-20070077049-\$ or US-20070058070-\$ or US-20070047942-\$ or US-20070040924-\$ or US-20070035210-\$ or US-20070030573-\$ or US-20070019950-\$).did. or (US-20070008321-\$ or US-20070002455-\$ or US-20060274186-\$ or US-20060238075-\$ or US-20060238074-\$ or US-20060232169-\$ or US-20060222355-\$ or US-20060221472-\$ or US-20060221458-\$ or US-20060215281-\$ or US-20060209205-\$ or US-20060181748-\$ or US-20060181632-\$ or US-20060177210-\$ or US-20060172762-\$ or US-20060152818-\$ or US-20060152814-\$ or US-20060127077-\$ or US-20060125950-\$ or US-20060125925-\$ or US-20060119218-\$ or US-20060103893-\$ or US-20060103374-\$ or US-20060062559-\$ or US-20060056036-\$ or US-20060056035-\$ or US-20060049720-\$).did. or (US-20060045374-\$ or US-20060044455-\$ or US-20060041591-\$ or US-20060008129-\$ or US-20050275315-\$ or	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/01 07:22
6/8/2007 12:40:46 PM		C:\My Documents\EAST\Workspaces\10733593_Camera lens and speaker.wsp				Page 7

EAST Search History

S16	97	(US-20030125080-\$ or US-20030109232-\$ or US-20070010289-\$ or US-20050001905-\$ or US-20040240845-\$ or US-20050277437-\$ or US-20050275623-\$ or US-20060240700-\$ or US-20060238637-\$ or US-20060209505-\$ or US-20060142053-\$ or US-20060108588-\$ or US-20060097988-\$ or US-20060170651-\$ or US-20040212956-\$ or US-20040209645-\$ or US-20040204065-\$ or US-20060203439-\$ or US-20060199729-\$ or US-20050041136-\$ or US-20050037821-\$ or US-20050035912-\$ or US-20050026656-\$ or US-20050024500-\$ or US-20050233766-\$ or US-20050205291-\$).did. or (US-20050195576-\$ or US-20050275751-\$ or US-20050253923-\$ or US-20050239520-\$ or US-20050235021-\$ or US-20070004477-\$ or US-20070004250-\$ or US-20050177978-\$ or US-20050128322-\$ or US-20050094025-\$ or US-20050014538-\$ or US-20040203535-\$ or US-20030227564-\$ or US-20030064685-\$ or US-20060217148-\$ or US-20060046776-\$ or US-20060044442-\$ or US-20060040712-\$ or US-20050050686-\$ or US-20050041862-\$ or US-20060044407-\$ or US-20040051626-\$ or US-20040048632-\$ or US-20020180867-\$ or US-20020142798-\$ or US-20020089589-\$ or US-20020067408-\$).did. or (US-20020061767-\$ or US-20050101358-\$ or US-20050085280-\$ or US-20050064264-\$ or US-20050052559-\$ or	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/01 07:22
6/8/2007 12:40:46 PM	C:\My Documents\EAST\Workspaces\10733593_Camera lens and speaker.wsp					Page 8

EAST Search History

S17	268	(S14 S15 S16) and (speaker loudspeaker microphone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 07:23
S18	1	("5491507").PN.	USPAT; USOCR	OR	OFF	2007/05/01 11:58
S19	2	((("6708797") or ("6789642")).PN.	USPAT; USOCR	OR	OFF	2007/05/01 12:18
S20	1476	(381/333,334,336,124,386).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/01 12:19
S21	122	S20 and (imager camera lens optic\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 13:06
S22	575	((speaker loudspeaker) with (lens optics lense (optical adj element) (lens adj system))) same (camera imager (image near1 sensor) (image near1 pickup) (solid adj state adj sensor) (photoelectric adj converter) (imaging adj (device or system or apparatus)) (image adj capture adj (device or system or apparatus)) (image adj sensing adj (device or system or apparatus)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 15:38
S23	1	2003-159517.NRAN.	DERWENT	OR	OFF	2007/05/01 14:36
S25	1	("6281925").PN.	USPAT; USOCR	OR	OFF	2007/05/01 14:39
S27	1	("20030043478").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/01 14:40
S28	1	2006-287128.NRAN.	DERWENT	OR	OFF	2007/05/01 15:32

EAST Search History

S29	19	((speaker loudspeaker) and (lens optics lense (optical adj element) (lens adj system))) and (camera imager (image near1 sensor) (image near1 pickup) (solid adj state adj sensor) (photoelectric adj converter) (imaging adj (device or system or apparatus)) (image adj capture adj (device or system or apparatus)) (image adj sensing adj (device or system or apparatus))))).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 15:47
S31	91	((speaker loudspeaker) and (lens optics lense (optical adj element) (lens adj system))).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 15:48
S32	423	((speaker loudspeaker) and (camera imager (image near1 sensor) (image near1 pickup) (solid adj state adj sensor) (photoelectric adj converter) (imaging adj (device or system or apparatus)) (image adj capture adj (device or system or apparatus)) (image adj sensing adj (device or system or apparatus))))).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 15:50
S33	832	(348/335).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/02 11:15
S34	549	S33 and (coil voltage power magnetic\$4 electromagnetic\$4 electrostatic\$4 speaker loudspeaker)	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/02 08:55
S35	375	S33 and (coil voltage magnetic\$4 electromagnetic\$4 electrostatic\$4 speaker loudspeaker)	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/02 08:57
S36	297	S33 and (coil magnetic\$4 electromagnetic\$4 electrostatic\$4 piezo piezoelectric pzt speaker loudspeaker)	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/02 09:14
S37	54	S33 and deform\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/02 09:36

EAST Search History

S38	187	(359/231).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/02 09:42
S39	527	(359/230).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/02 09:42
S43	1	("6845510").PN.	USPAT; USOCR	OR	OFF	2007/05/02 10:25
S44	2	("5491507").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/07 17:46
S45	0	("2006/0125925").URPN.	USPAT	OR	OFF	2007/05/02 12:05
S46	5001	(radius near2 curvature) same (magnetic\$4 electromagnetic\$4 piezoelectric\$4 pzt)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/02 12:08
S47	2239	(radius near2 curvature) with (magnetic\$4 electromagnetic\$4 piezoelectric\$4 pzt)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/02 12:09
S48	175	(radius near2 curvature) with (magnetic\$4 electromagnetic\$4 piezoelectric\$4 pzt) with (membrane pellicle lamina sheet film)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/02 12:14

EAST Search History

S49	29	S48 and (lens optics lense (optical adj (element system path)) (lens adj system))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/02 14:44
S51	365	(396/133).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/02 15:44
S52	2515	(381/332-334,386,388,396,423).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/03 07:22
S53	60	S52 and (camera imager (image near1 sensor) (image near1 pickup) (solid adj state adj sensor) (photoelectric adj converter) (imaging adj (device or system or apparatus)) (image adj capture adj (device or system or apparatus)) (image adj sensing adj (device or system or apparatus)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/03 08:18
S54	61	S52 and (lens optics lense (optical adj element) (lens adj system))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/03 07:58
S55	453	(381/152).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/03 07:58
S56	127	S55 and (voice adj coil)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/03 08:17
S57	4444	(455/556.1,556.2,569.1,550.1).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/03 08:18

EAST Search History

S58	198	S57 and ((camera imager (image near1 sensor) (image near1 pickup) (solid adj state adj sensor) (photoelectric adj converter) (imaging adj (device or system or apparatus)) (image adj capture adj (device or system or apparatus)) (image adj sensing adj (device or system or apparatus))) with (speaker loudspeaker))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/03 08:23
S59	783	(381/190).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/07 10:42
S60	47	S59 and polyethylene	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/07 10:42
S61	18	S60 and coil	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 10:38
S62	825	(381/396).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/07 10:42
S63	25	S62 and polyethylene	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/07 11:01
S64	51	("2632045" "20030072070" "20030117719" "20040000843" "3121169" "4238793" "4289379" "4494003" "4989958" "5682447" "5712692" "5739959" "5748382" "5774274" "5915063" "5917657" "6038080" "6055090" "6081388" "6317108" "6438282" "6771237").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 11:01
S65	1	("4802746").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/07 18:17

EAST Search History

S66	1	("4802746").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/08 10:27
S67	14	("4289379" "4631394" "4639588").PN. OR ("4802746"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/08 10:27
S68	25	("1269422" "3598479" "4383175" "4444471" "4514048" "4712882" "4783155" "4783233" "4784479" "4802746" "4859041" "4913536" "5484096").PN. OR ("5731909"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/08 12:15